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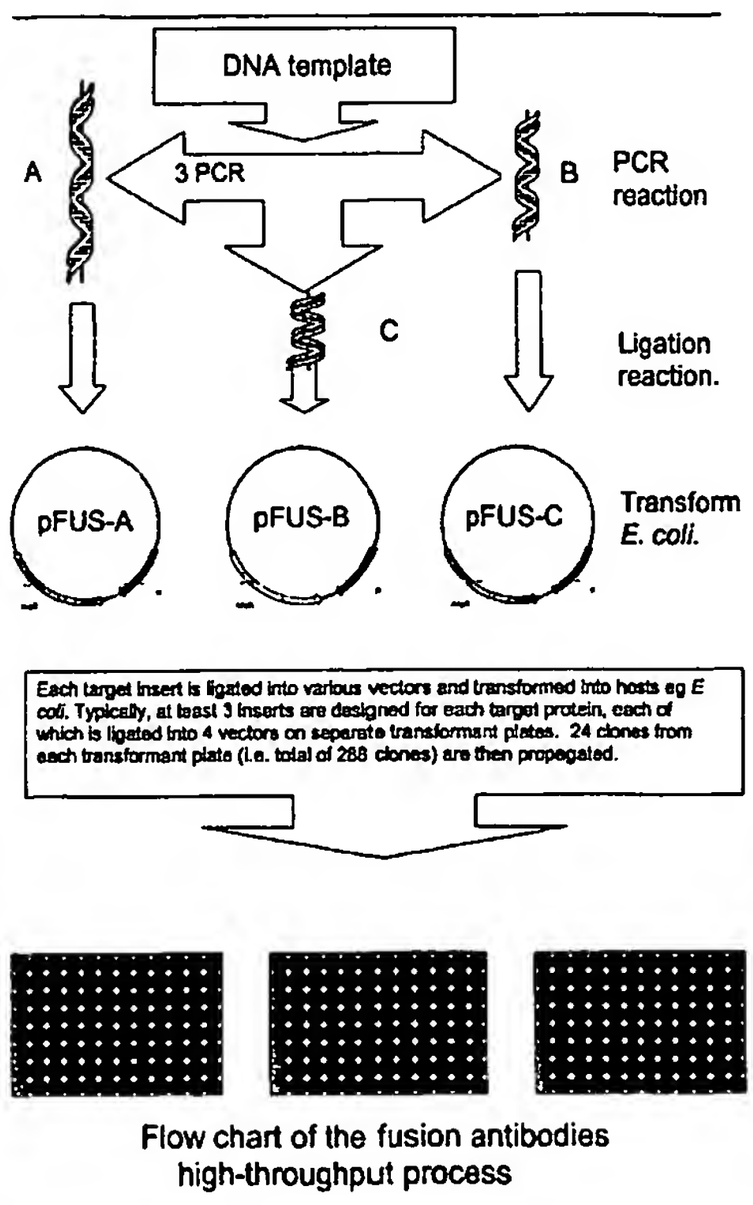

Flow chart of the fusion antibodies high-throughput process

(57) Abstract: Described is a method of producing a soluble bioactive domain of a protein, the method comprising the step of selecting suitable soluble subunits of a protein and assessing the produced protein for desired activity. The method may comprise the steps of amplifying DNA encoding at least one candidate soluble domain, cloning the amplified DNA into at least one expression vector, using each of said vectors into which the DNA has been cloned to each transfect or transform one or more host cell strains, expressing said DNA in one or more host cell strains, and analysing expression products from said host cells for solubility.

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Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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According to International Patent Classification (IPC) or to both national classification and IPC

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Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, BIOSIS, WPI Data, EMBASE, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	TON-THAT HUNG ET AL: "Purification and characterization of sortase, the transpeptidase that cleaves surface proteins of Staphylococcus aureus at the LPXTG motif." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES, vol. 96, no. 22, 26 October 1999 (1999-10-26), pages 12424-12429, XP002253866 Oct. 26, 1999 ISSN: 0027-8424 the whole document	1-26, 31-34, 40-43

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[ ] Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ILANGOVAN UDAYAR ET AL: "Structure of sortase, the transpeptidase that anchors proteins to the cell wall of Staphylococcus aureus." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES, vol. 98, no. 11, 22 May 2001 (2001-05-22), pages 6056-6061, XP002253867 May 22, 2001 ISSN: 0027-8424 the whole document	1-26, 31-34, 40-43
X	DAVIS GREGORY D ET AL: "New fusion protein systems designed to give soluble expression in Escherichia coli" BIOTECHNOLOGY AND BIOENGINEERING. INCLUDING: SYMPOSIUM BIOTECHNOLOGY IN ENERGY PRODUCTION AND CONSERVATION, JOHN WILEY & SONS. NEW YORK, US, vol. 65, no. 4, 1999, pages 382-388, XP002192026 ISSN: 0006-3592 the whole document	1-26
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